



Coal Creek Utility District

Introduction

Coal Creek Utility District's water and sewer service areas are approximately 5.5 and 4.7 square miles, respectively. The service areas generally extend from the City of Bellevue at Southeast 69th street on the north, the City of Newcastle and City of Renton boundaries on the south, Cougar Mountain Regional Wildland park on the east and Lake Washington on the west. The district serves the City of Newcastle and a small portion of the City of Renton and unincorporated King County.

Development Trends

The average annual growth rate in population over the next 20 years is approximately one percent a year and the average growth rate for employment is estimated to be nearly three percent a year. In the last five years residential developments have encroached on parts of our known coal mine areas. Several of our water and sewer infrastructures may be at risk of collapse or severe separation.

Jurisdiction Point of Contact:

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Coal Creek Utility District Profile

The District has been serving the community of Newcastle since 1959. With a growing population of approximately 13,000 with 4,000 water connections and 3,500 sewer connections.

- 5 water reservoirs with the capacity of 13 million gallons
- 9 Sewer lift stations







Coal Creek Utility District Risk Summary

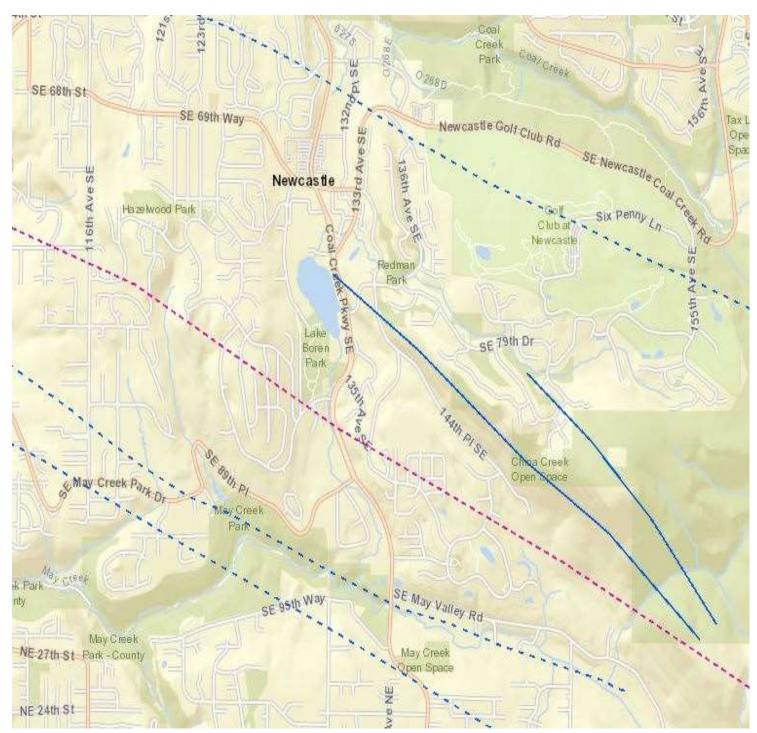
Hazard Risk and Vulnerability Summary

HAZARD	HAZARD SUMMARY	Vulnerability Summary	IMPACT SUMMARY
Earthquake	Our 700 Reservoir is susceptible to earthquake damage of structure and could mean total loss of the reservoir	The tank was built out of concrete in the early 60's and is already showing signs of failure and damage.	The reservoir is a booster station to supply the 1060 reservoir. If we lost the 700 it would be a challenge to supply water to our customers
Mine Shafts	The area of Newcastle was mined from 1870-1963	Parts of Newcastle have a history of mine sink holes	in our higher elevations. In the areas mentioned we have water and sewer infrastructure that has potential for separation of services.
Landslide	Steep slopes in the district, especially the location of the Rainier Crest booster station.	Rainier Crest booster station was built on a known landslide area	The loss of Rainier Crest would impact water availability to our customers in the higher elevations.
Severe Weather	Windstorms are common in the region; winter weather, including ice and snow, can occur throughout the district and make areas impassable.	Historical high wind events have caused multi-day power outages, ice and snowstorms can make restoration difficult.	Multiple day power outages may present refueling issues.
Severe Winter Weather	Due to the topography of our district we will have limited access to our facilities	In an event of severe winter weather, the ability to refuel generators would be limited	Without the ability to refuel our booster stations we would possibly be unable to increase reservoir levels. We would also be unable to refuel our sewer lift station generators.





Fault Lines in District







Coal Creek Assets at Risk

ASSET	VALUE (\$)	Hazard Summary	VULNERABILITY SUMMARY	IMPACT SUMMARY
700 Reservoir	\$4 million	Our 700 Reservoir is susceptible to earthquake damage of structure and could mean total loss of the reservoir.	The tank was built out of concrete in the early 60's and is already showing signs of failure and damage.	The reservoir is a booster station to supply the 1060 reservoir. If we lost the 700 it would be a challenge to supply water to our customers in our higher elevations.
Rainier crest	\$1.5	Rainier crest is a	Rainier crest is built on a	This station would present
booster	million	booster station to	site with known landslide	a challenge by not serving
station		feed our high	issues.	our community in the
		elevations.		higher zones.
Water/Sewer	\$500,000	Coal mines have the	Many of our services	Disruption of service and
Infrastructure		potential for collapse or sink holes	were built in coal mine areas	environment hazards

Plan Update Process

Coal Creek Utility District participates with King County planning process and is involved with the hazard mitigation committee. We as a district as well as our engineering firm continue to assess our assets at risk and continue to plan for system upgrades throughout our service area. Coal Creek Utility District continues the philosophy of field crew involvement with policy makers and engineering on district projects to further advance Hazard Mitigation priorities.

Jurisdiction Planning Team

Name	TITLE	Organization	Contribution
Dan Gravelle	Water/Sewer Tech	Coal Creek Utility	Plan writer
		District	
Steve Moye	Water/Sewer Tech	Coal Creek Utility	Plan writer
		District	

Plan Update Timeline

PLANNING ACTIVITY	Date	Summary	ATTENDEES
Regional Hazard	December, July, and	Meeting with regional	Dan Gravelle
Mitigation workshop	August 2018/2019	participants	Steve Moye
Hazard Mitigation	2019 (eight total	Coordinated with	Dan Gravelle
Steering committee	meetings)	steering committee	Steve Moye
meetings		members	Steering Committee
City of Renton-	2019	City of Renton hazard	Dan Gravelle
Emergency		mitigation plan	Steve Moye
management members			

Public Outreach Events

EVENT	DATE	Summary	Attendees
Newcastle Days	Sept 7th 2019	Shared our risks and	Residents of Newcastle
		assessment strategies	
		with the public, followed	
		by questions and answers	





Jurisdiction Hazard Mitigation Program

Hazard mitigation strategies were developed through a two-step process. Each jurisdiction met with an internal planning team to identify a comprehensive range of mitigation strategies. These strategies were then prioritized using a process established at the county level and documented in the base plan.

Plan Monitoring, Implementation, and Future Updates

King County leads the mitigation plan monitoring and update process and schedules the annual plan check-ins and bi-annual mitigation strategy updates. Updates on mitigation projects are solicited by the county for inclusion in the countywide annual report. As part of participating in the 2020 update to the Regional Hazard Mitigation Plan, every jurisdiction agrees to convene their

Plan Goals

Goal 2 – Access to Health and Human Services

Goal 6 – Community and Public Safety

Goal 12 – Healthy Built and Natural Environments

internal planning team at least annually to review their progress on hazard mitigation strategies and to update the plan based on new data or recent disasters.

As part of leading a countywide planning effort, King County Emergency Management will send to planning partner any federal notices of funding opportunity for the Hazard Mitigation Assistance Grant Program. Proposals from partners will be assessed according the prioritization process identified in this plan and the county will, where possible, support those partners submitting grant proposals. This will be a key strategy to implement the plan.

The next plan update is expected to be due in April 2025. All jurisdictions will submit letters of intent by 2023, at least two years prior to plan expiration. The county will lead the next regional planning effort, beginning at least 18 months before the expiration of the 2020 plan.

Continued Public Participation

King County and its partner cities already maintains substantial public outreach capabilities, focusing on personal preparedness and education. Information on ongoing progress in implementing the hazard mitigation plan will be integrated into public outreach efforts. This will provide King County residents, already engaged in personal preparedness efforts, with context and the opportunity to provide feedback on the county's progress and priorities in large-scale mitigation. In the vertical integration of risk-reduction activities from personal to local to state and federal, it is important that the public understand how its activities support, and are supported by, larger-scale efforts.

The outreach and mitigation teams will also continue to work with media and other agency partners to publicize mitigation success stories and help explain how vulnerabilities are being fixed. When possible, public tours of mitigation projects will be organized to allow community members to see successful mitigation in action.





Hazard Mitigation Authorities, Responsibilities, and Capabilities

Plan Title	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Comprehensive Plan 2013 Water and Sewer	Coal Creek Utility District	Dan Gravelle Steve Moye	Our CIP programs is integrated through our Hazard Mitigation process.
Comprehensive Emergency Response	Coal Creek Utility District	Dan Gravelle Steve Moye	ERP parallels Hazard mitigation priorities
Plan	District	Steve Moye	iniugadon phondes

National Flood Insurance Program

Coal Creek Utility District does not participate with the program

Hazard Mitigation Strategies

2015 Hazard Mitigation Strategy Status

STRATEGY	DESCRIPTION	Priority	Status
Determine erosion and	Geotechnical study of	Medium Risk	Complete
earthquake	our 700 Reservoir site		
vulnerabilities			

2020 Hazard Mitigation Strategies

Reservoir Replacement study				
STRATEGY	LEAD AGENCY/POC	TIMELINE	Priority	
700 Reservoir	. Coal Creek Utility	2-5 years	Medium Risk	
Replacement	eplacement District			
. Pace Engineering				





Hazard Mitigation Strategy

Lead Points of	Partner Points of Contact	Hazards Mitigated / Goals	Funding Sources
Contact	Pace Engineering	Addressed	and Estimated
			Costs
Dan Gravelle		2. Access to Health and Human	• self-
Steve Moye		services	funding
Water/ Sewer Technicians		6. Community and Public Safety	• \$5 million
1 cermicians		12. Healthy Built and Natural	
		Environments	

Strategy Vision/Objective

Maintain and upgrade our water distribution system to provide resilience in the event of an earthquake and to ensure safe drinking water for the community.

Mitigation Strategy

- Tank/ Site study
- Negotiations with the City of Newcastle to determine possible use of open space
- Coordinate with future developers for Reservoir relocation site

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2-Year Objectives	5-Year Objectives	Long-Term Objectives
Co- Worker discussion	GIS mapping/ Engineers	• 700 Reservoir
 Engineer management 	CIP budget Comp Plan	relocation
meeting	Acquire land/site development	
 Site plan/ pre application 		
implementation for future		
site.		
Cost Analysis		

Implementation Plan/Actions

- Coordinate with Pace Engineering to determine concrete tank condition, if recommendation is to replace concrete tank, we would coordinate with the City of Newcastle for potential land acquisition.
- We will determine structural integrity of assets.
- Preliminary relocation study/plan

Performance Measures

• Reduction of risk to our 700 Reservoir system.